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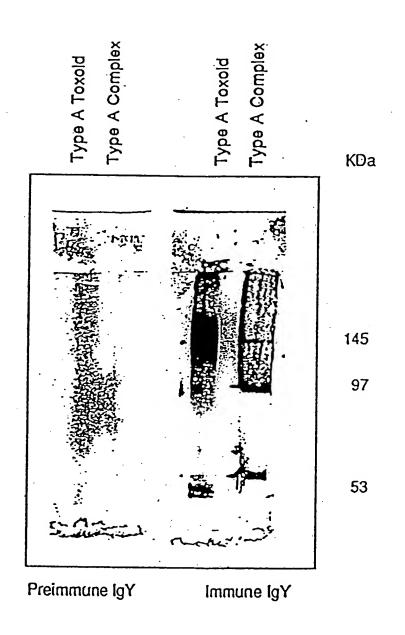
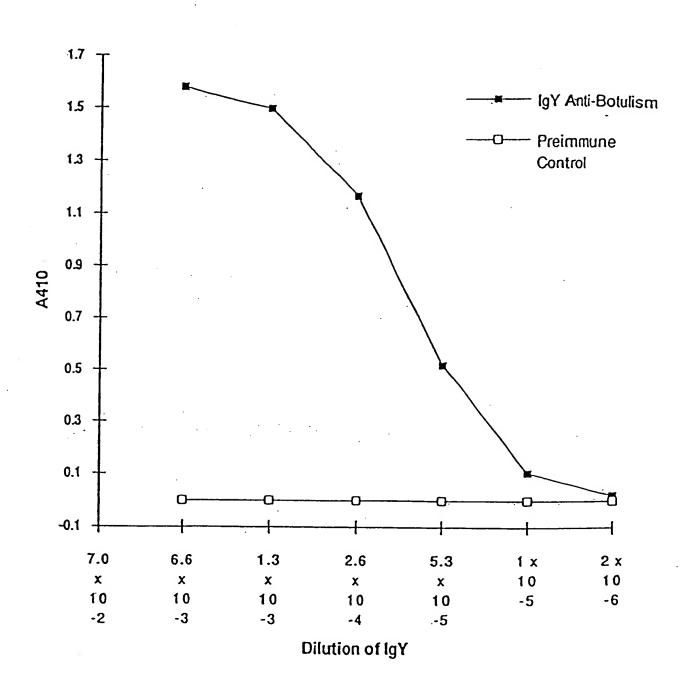
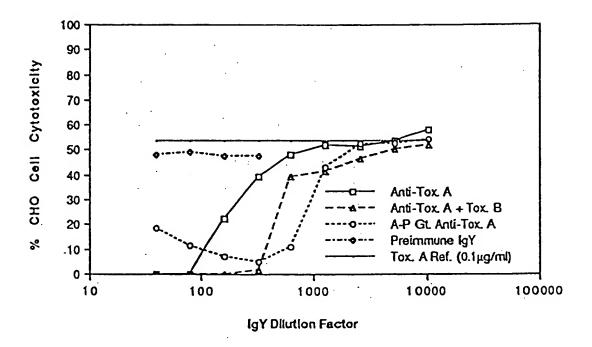
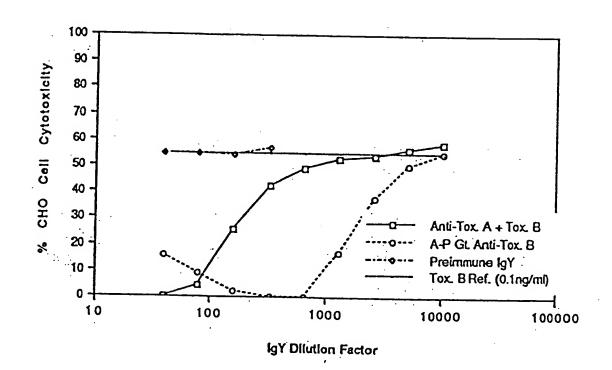
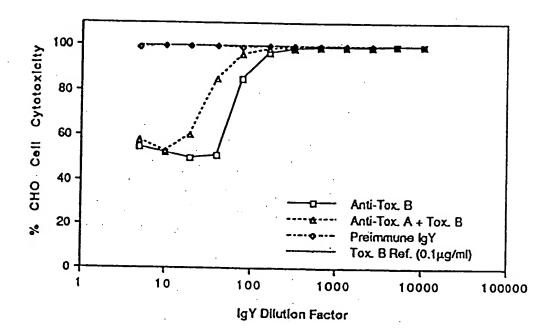


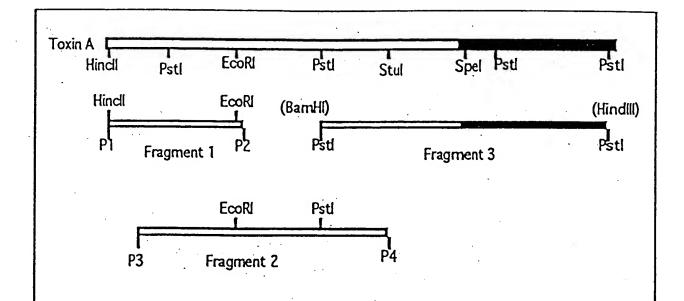
FIGURE 2



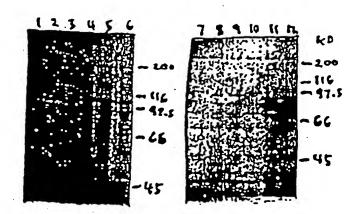








P1-P4 are PCR primers 1-4. P1=5'GGAAATTTAGCTGCAGCATCTGAC3', P2=5'TCTAGCAAATTCGCTTGTGTTGAA3',P3=5'CTCGCATATAGCATTAGACC3', P4=5'CTATCTAGGCCTAAAGTAT3'. Indicated restriction sites in fragments 1 and 2 are internal sites used to clone into pGEX2T vector (fragment 1; construct called pGA30-660) or pMALc vector (fragment 2; construct called pMA660-1100). Bracketed restriction sites at ends of fragment 3 are pUC9 polylinker sites utilized to clone fragment 3 into pET23 vector (construct called pPA1100-2680). Numbers in these constructs refer to toxin A amino acid interval that is expressed. The shaded portion of the toxin A gene corresponds to the repeating ligand binding domain.



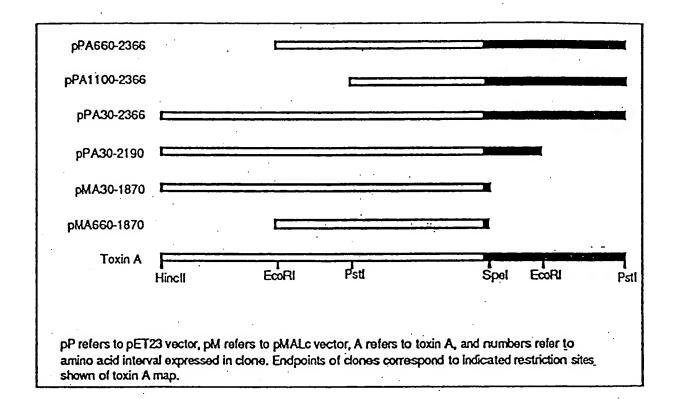
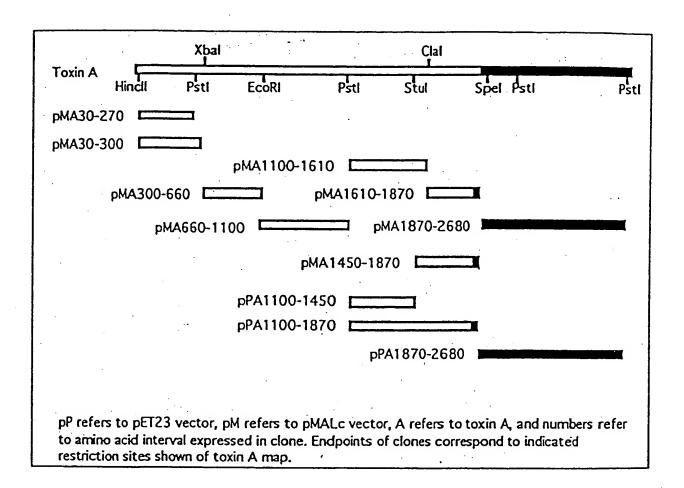
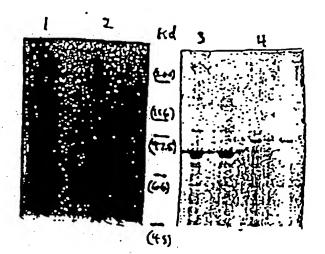
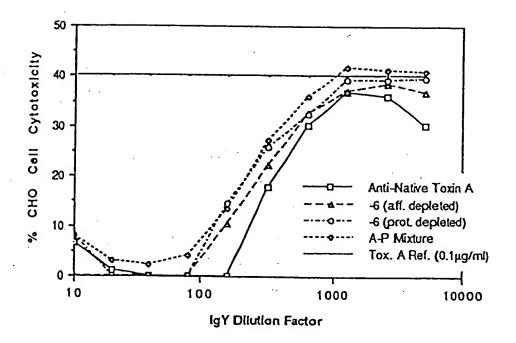


FIGURE 9







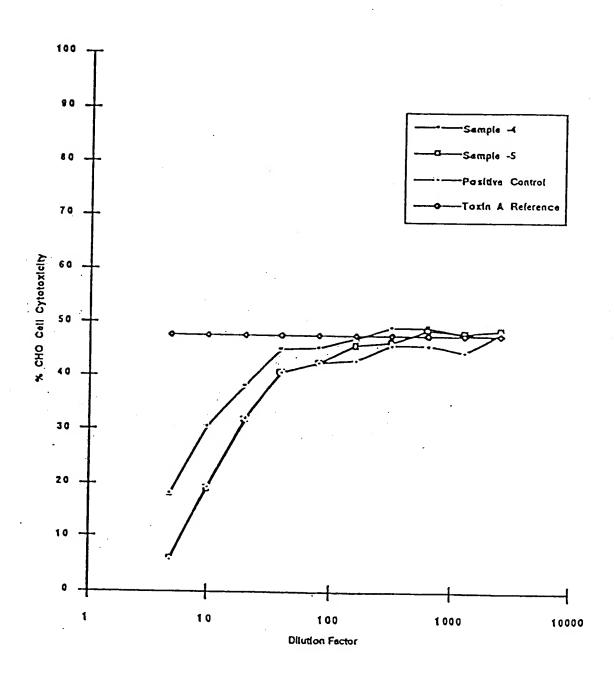
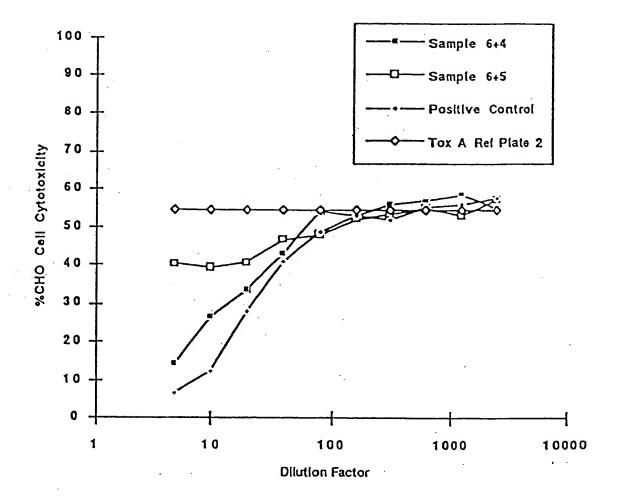
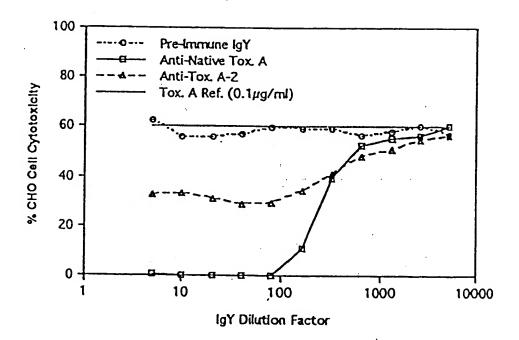
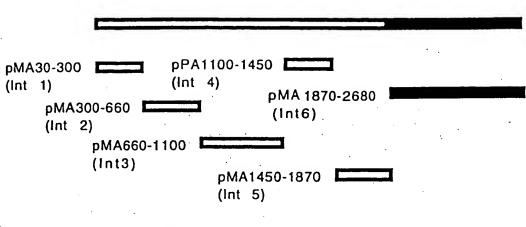


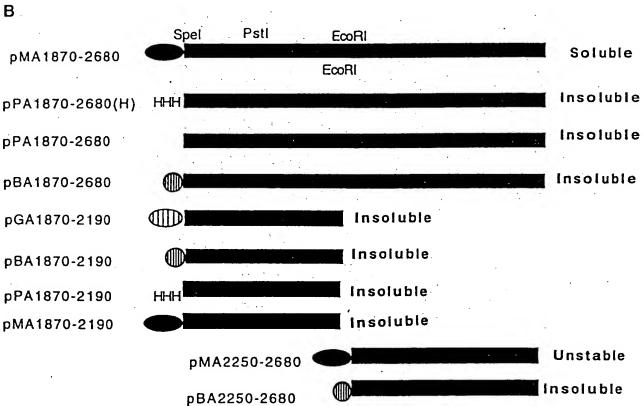
FIGURE 13

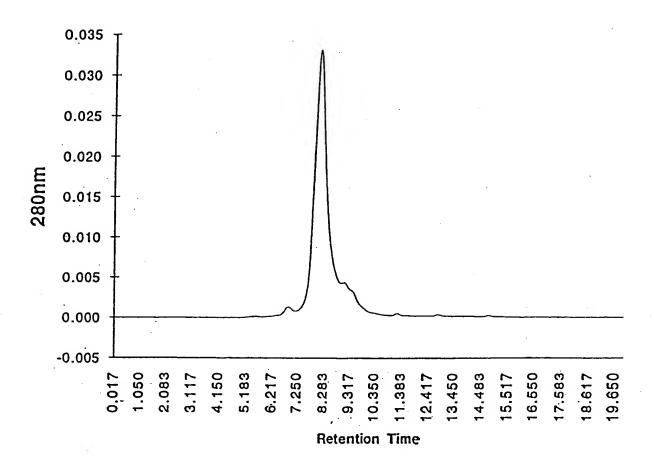


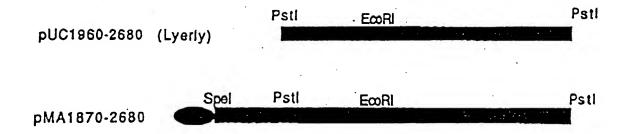


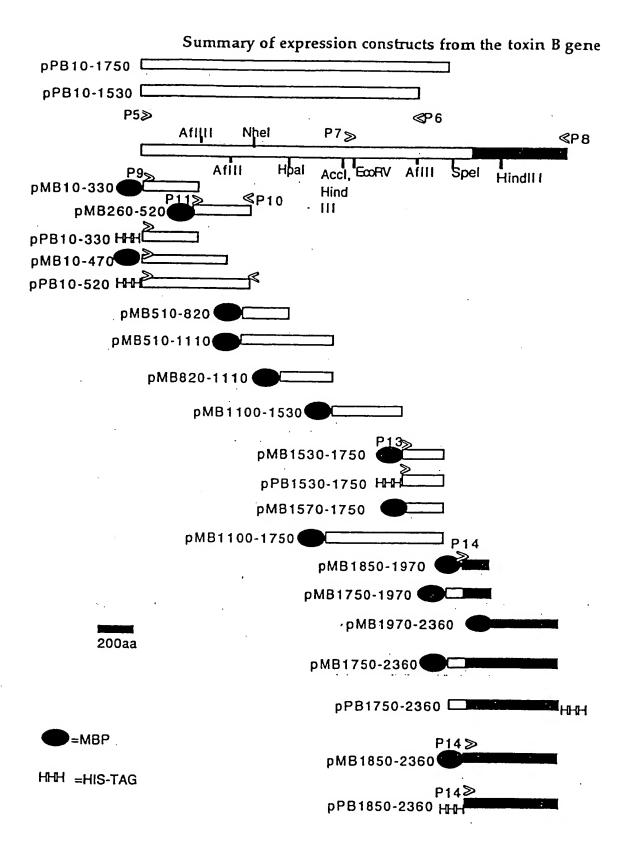
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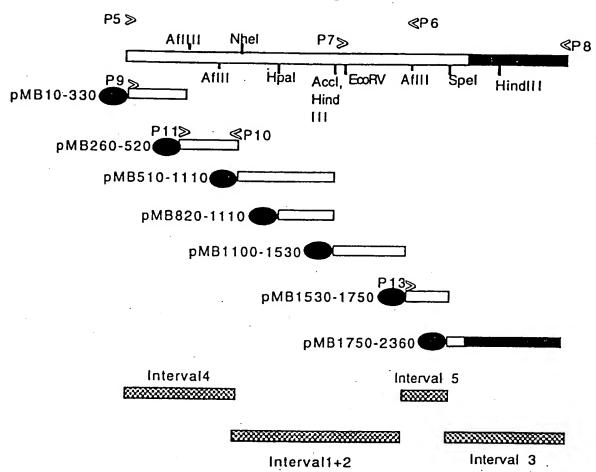


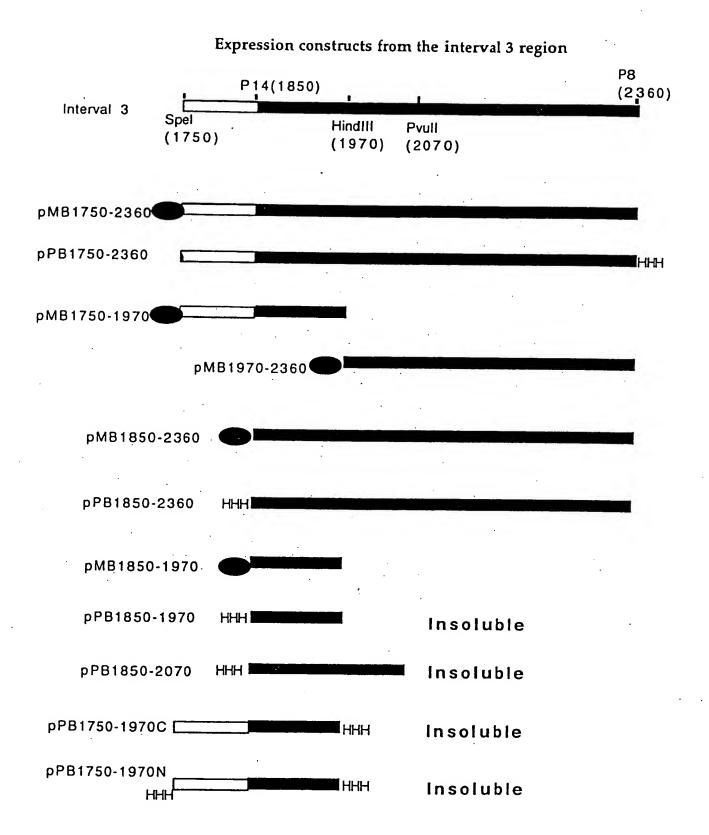


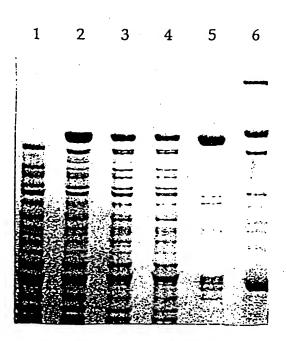




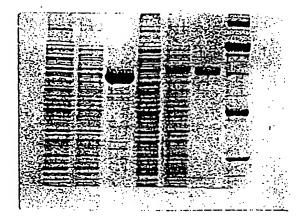
#### Interval specific expression constructs



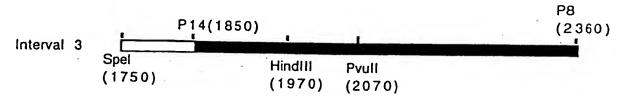


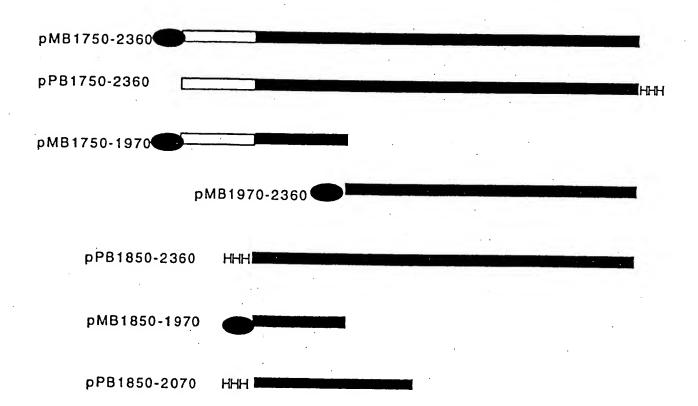


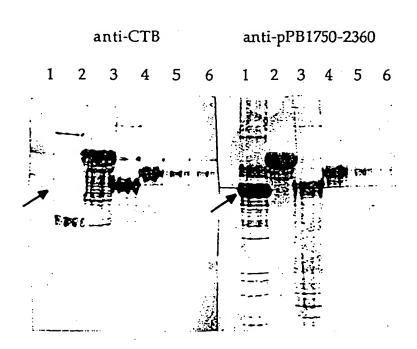


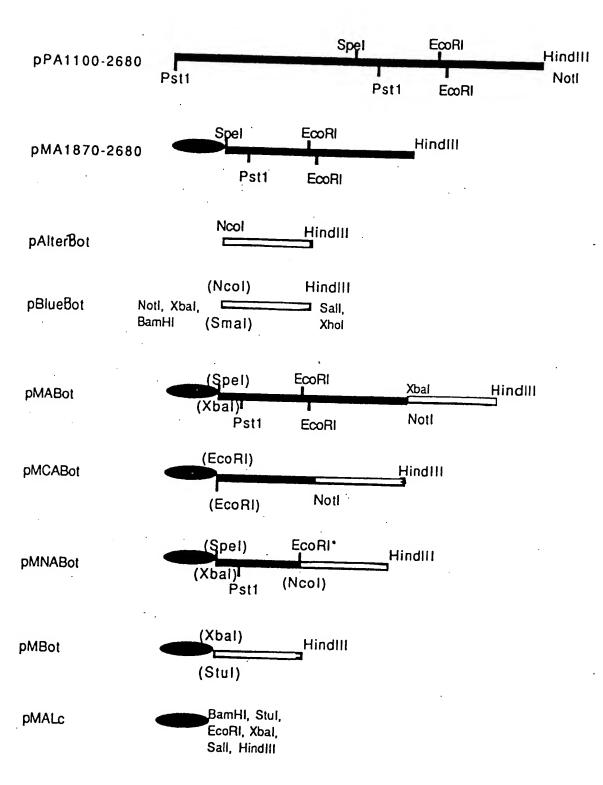


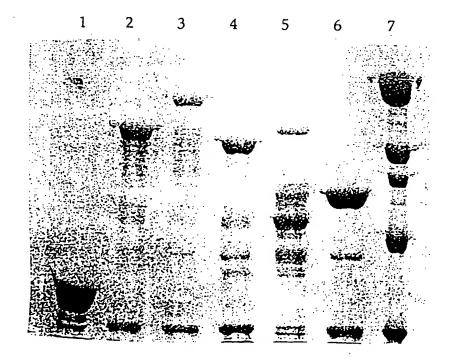
### Binding of neutralizing CTB antibodies by recombinant toxin B protein



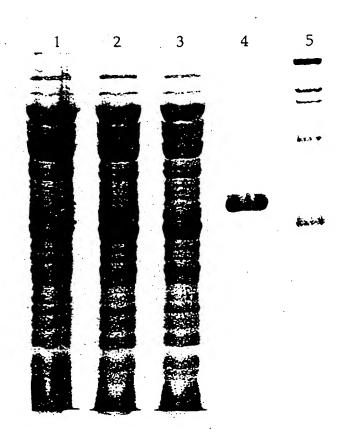






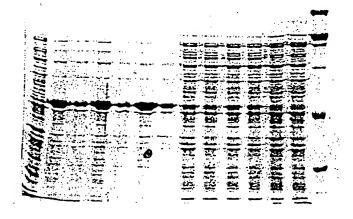


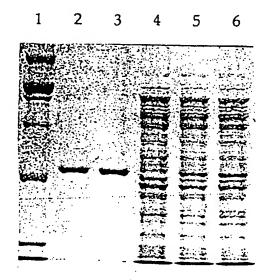
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pBlueBot	(Ncol) Notl, Xbal,	Hindlil Sall,
politebol	BamHI (Smal)	Xhol
pMBot	(Xbal)	HindIII
	(Stul)	·
pHisBot	(Ncol)	HindIII
	Ndel*	, Intom
pPBot	(Ncol)	HindIII
	(Noti)	(Sall)
pGBot	(Smal)	(Xhol)
	(Ontal)	(VIIOI)

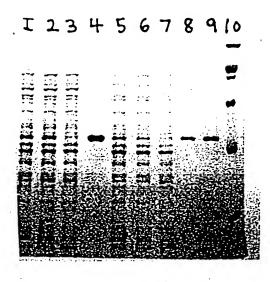


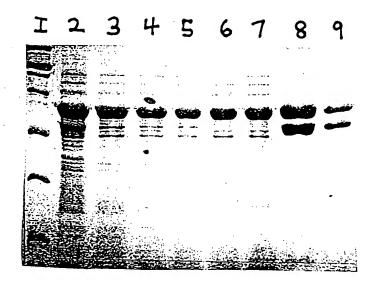
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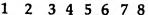


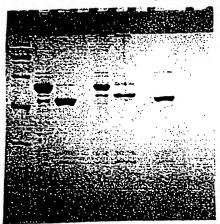






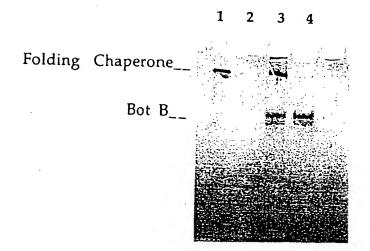
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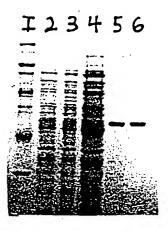
Part Wind one



[. 7 16 (2) 10 10



1 2 3 4 5



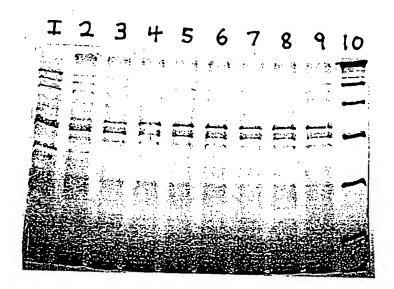


FIGURE 40

